Week 2 Quiz

1. Which of the following statements regarding material covered in this module are TRUE (multiple answers possible)?

   ☑ Subs can have arguments.

   ⊘ **Correct**

   Correct! While 99% of subroutines do not have arguments, they certainly can have arguments. See the example I worked through where a Sub needed to know the starting and ending values for row numbers to delete.

   ☑ Functions can have arguments.

   ⊘ **Correct**

   Correct! In fact, most functions do have arguments.

   ☑ Functions can be stepped through just like subroutines by using F8. In other words, the cursor can be placed within the function code and F8 will step through the function just like with subs.

   ⊗ **This should not be selected**

   Incorrect. In order to step through a function, you must first put a breakpoint into the left sidebar, switch over to Excel, type in the function, press enter, and over in the VBE (Visual Basic Editor) you will now be in break mode and can step through using F8. So, it's not quite as easy as debugging a Sub.

2. Which of the following VBA statements could you use to implement the following algebraic equation?

$$y = 5 + \sqrt{x}$$

   ○ y=Sqr(x+5)

   ○ y=5+x

   ○ y=x+Sqr(5)

   ◉ y=5+Sqr(x)

   ⊘ **Correct**

   Correct! The Sqr function is the square root function in VBA (Note that in Excel, SQRT is the square root function).

3. Which of the following procedures (multiple answers possible) show proper syntax or "etiquette"? HINT: 2 of the 4 are correct.

   ☑ Does this show proper syntax/etiquette?

   ```
   Option Explicit

   Sub IsThisOkay()
   Dim x As Double, y As Double
   x = 2
   y = 1
   IsThisOkay = x + y
   End Sub
   ```

   ⊗ **This should not be selected**

   Incorrect. The output of a sub is not the name of the sub (IsThisOkay in this case) as is done with a function. Line 5 is incorrect and will result in an error.

☑ Does this show proper syntax/etiquette?

```
Option Explicit

Function IsThisOkay(x As Double, y As Double)
IsThisOkay = x + y
End Function
```

●

✓ **Correct**

Correct! This function uses proper syntax with variables declared inside parentheses and the output of the calculation is the name of the function (IsThisOkay).

☑ Does this show proper syntax/etiquette?

```
Option Explicit

Sub IsThisOkay()
Dim x As Double, y As Double
x = 2
y = 1
Range("A1") = x + y
End Sub
```

●

✓ **Correct**

Correct! This Sub is properly written with variables Dim'med and the output of the calculation going to cell A1 of the worksheet.

4. True or false? It is okay to use message boxes and input boxes in user defined functions.

○ True

● ⦿ False

✓ **Correct**

Correct! Never use message boxes and input boxes in user defined functions! They are reserved for subroutines only.

5. The PMT function in Excel typically uses 3 arguments:

=PMT(rate,nper,pv)

Which of the following correctly shows how you would borrow Excel's PMT function in a line of VBA code and store in the variable P? Assume that rate, nper, and pv have already been Dim'med and values defined. P has also been Dim'med.

○ WorksheetFunction.PMT(rate,nper,pv) = P

● ⦿ P = WorksheetFunction.PMT(rate,nper,pv)

○ P = WorksheetFunction.PMT

○ P = PMT(rate,nper,pv)

✓ **Correct**

Correct! To borrow a function from Excel, we must precede the function with "WorksheetFunction".